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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Art Unit No.: 2431

Confirmation No. 8796

Examiner: VAUGHN, Michael R.

Title: Detector autocalibration in QKD
Systems

Attorney Docket No. 037-03US1

Mail Stop: Amendment
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this correspondence is, on the date shown below, being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to:

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The Commissioner for Patents
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Joseph E. Gortych

Date: **April 13, 2009**

REPLY UNDER 37 CFR § 1.113

In reply to the Second and Final Office Action dated April 01, 2009, Applicants submit the following Amendments and Remarks with respect to the above-identified patent application (the "Application"). Where necessary, reference is made hereinbelow to Applicants' published patent application, U.S. Pat. Pub. No. 2007/0133799 A1 (hereinafter, the "Published Application").

- **Amendments to the Claims** begin on page 2.
- **Remarks/Arguments** begin on page 7.